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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/614,976	07/09/2003	Mitsuichi Hiratsuka	116493	8810
25944 75	90 07/19/2006		EXAMINER	
OLIFF & BERRIDGE, PLC			MARC, MCDIEUNEL	
P.O. BOX 1992			ART UNIT	PAPER NUMBER
ALEXANDRIA, VA 22320				
			3661	

DATE MAILED: 07/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Author Comments	10/614,976	HIRATSUKA ET AL.				
Office Action Summary	Examiner	Art Unit				
	McDieunel Marc	3661				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days till apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	rely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>8/26/2005</u> .						
2a)⊠ This action is FINAL . 2b)☐ This						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-13</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine						
10) \boxtimes The drawing(s) filed on <u>09 July 2003</u> is/are: a) \boxtimes accepted or b) \square objected to by the Examiner.						
Applicant may not request that any objection to the o		• •				
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Expression 11.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	•	d in this National Stage				
application from the International Bureau * See the attached detailed Office action for a list of	` "	a				
See the attached detailed Office action for a list of	or the certified copies flot receive	u.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Patent Application (PTO-152) 6) Other:					

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DETAILED ACTION

1. Claims 1-13 are presented for examination.

2. The rejection to claims 1-13 under 35 U.S.C. 102(e) as being anticipated by Ghodoussi et al. (U.S. Pat. Pub. 20030144649A1) is maintained.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Ghodoussi et al. (U.S. Pat. Pub. 20030144649A1).

As per claims 1 and 7, <u>Ghodoussi et al.</u> teaches with respect to claims 1 and 7 "Tele-Medicine System That Transmits And Entire State Of A Subsystem" having a remote control method for remotely controlling a robot controller (see fig. 1, particularly the remote controllers) through a universal communication network by using a general-purpose terminal (see figs. 1, 7, element 148) by a terminal disposed remote from the robot controller (see fig. 7, elements 50 and 52), comprising: enabling the general-

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purpose terminal to remotely control the robot controller by a functional connecting device located on a robot controller-side of the network (see figs. 1 and 7), the functional connecting device being capable of enabling the general-purpose terminal to remotely control the robot controller through the universal communication network (see fig. 7); and performing a predetermined operation on the robot controller using the general-purpose terminal (see fig. 1), note that predetermined operation implies that the surgeons on figure 1 for instance knew what type of operation to perform on a particular patient. Also note that Ghodoussi *et al.* contains two surgeon consoles/ *ZEUS*®¹s. It is inherent, but also well known that each handle of Ghodoussi *et al.* 's system works in combination with software command through a computer system in a conferencing manner via a network.

Ghodoussi et al. teaches a robot type, wherein a Computer Motion of Goleta, Calif. provides a system under the trademark ZEUS® that allows a surgeon to perform minimally invasive surgery, including CABG procedures. The procedure is performed with instruments that are inserted through small incisions in the patient's chest. The instruments are controlled by robotic arms. Movement of the robotic arms and actuation of instrument end effectors are controlled by the surgeon through a pair of handles and a foot pedal that are coupled to an electronic controller. Alternatively, the surgeon can control the movement of an "endoscope used to view the internal organs of the patient through voice commands. The handles and a screen are typically integrated into a console that is operated by the surgeon to control the various robotic arms and medical instruments of a ZEUS® system. Utilizing a robotic system to perform surgery requires

¹ The ZEUS7 Surgery Robotic System is similar to the Da Vinci™ system. At a console the surgeon controls the instrument handles while viewing the operative area on a monitor. Using a computer interface the surgical instruments attached to a three arms robot mimic the surgeon's movements on a real time on the patient as seen in figure. One of the armed is designed for the endoscope controlled by voice control. The technology available eliminates the slight hand tremors of the surgeon and also allow the surgeon to scale their natural movements to a microscopic scale. The ZEUS system has many advantages such as small incision about the diameter of pencil, reduced patient pain and trauma, and short hospital stays.

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a certain amount of training. It would be desirable to provide a system that would allow a second surgeon to assist another surgeon in controlling a robotic medical system. The second surgeon could both teach and assist a surgeon learning to perform a medical procedure with a ZEUS system. This would greatly reduce the time required to learn the operation of a robotically assisted medical system, also (see figs. 1-9, 11, 12 and pages 2-7).

With respect to claims 2 and 8, Ghodoussi et al. teaches a robot, wherein the step of enabling the terminal to remote control the robot controller is executed by sending a connect program from the functional connecting device to the terminal in response to a request made by the terminal (see figs. 1, 7 and sections [0047-0051], inherently meets the above limitation), note that the surgeon console being taken as terminal as well.

With respect to claims 3 and 9, <u>Ghodoussi et al.</u> teaches a robot that further comprising a step of converting information of a format sent from the terminal to the robot controller into information of another format that can be processed by the robot controller by the functional connecting device (see fig. 7, element 148 inherently meet the limitations).

With respect to claim 4, <u>Ghodoussi et al.</u> teaches a robot, wherein the step of performing the predetermined operation is executed by retrieving desired information from the robot controller through the functional connecting device by the terminal (see figs. 1, 7 and sections [0048-0052, 0054-0058]).

With respect to claims 5, 6, 11 and 12, <u>Ghodoussi et al.</u> teaches a robot, wherein operations performed by the terminal on the robot controller are limited; information retrievable from the robot controller by the terminal is limited (see fig. 1, wherein inherently the terminal/*ZEUS*® system being limited to its capacity to perform operations and retrieve information), note that the above limitations is based on design choice wherein the hardware and software can be implemented.

With respect to claim 10, <u>Ghodoussi et al.</u> teaches a robot, wherein the terminal retrieves desired information from the robot controller through the functional connecting device by the predetermined operation (see figs. 1, 7 and 8).

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With respect to claim 13, <u>Ghodoussi *et al.*</u> teaches a robot, wherein the functional connecting device is included in the robot controller (see figs. 1, 2, 7, 8 and 11, particularly the handles).

Response to Arguments

As to the reference not teaching a general-purpose terminal, such limitation has not been previously presented, however it does not change the scope of the claim, and any general-purpose terminal does not have patentable weight. Ghodoussi's contains a general-purpose terminal which being used as interface device.

As to the reference recognize the problems inherent in remote control system....such language has not been claimed.

As to the reference not teaching remotely controlling a robot controller using a general-purpose terminal (see Ghodoussi's fig. 1 and the above explanation).

- 5. Applicant's arguments filed 8/26/2005 fully considered but they are not persuasive.
- 6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to McDieunel Marc whose telephone number is (571) 272-6964. The examiner can normally be reached on 6:30-5:00 Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on (571) 272-6956. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

McDieunel (Marc Examiner Art Unit 3661

Friday, December, 02, 2005

MM/

THOMAS PLACK
THOMAS PATENT EXAMINER